



Maricopa County greengovernmentprogram



Maricopa County's significant population growth is historic and well-known. After adding approximately one million people in the 1990s, the County will again add another one million people in the first decade of this century. With a current population approaching four million and long-term projections showing the population nearly doubling again in less than 40 years, it is clear that strategies to help maintain a vibrant quality of life will be even more important in the future.

An important part of these strategies will be maintaining a healthy and sustainable environment. Recognizing the relationship between a healthy environment and the County's long-term success, the Maricopa County Board of Supervisors directed County departments to prepare and implement a long-term strategy whereby the County will reduce its carbon footprint, help save money, and enhance the region's environment. Several months of collaboration and coordination between its departments and community stakeholders has resulted in a new and innovative plan known as the Maricopa County Green Government Program.

2010
Maricopa County
Board of Supervisors



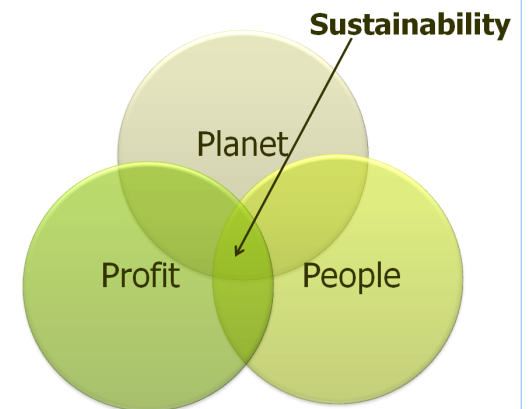
The Board of Supervisors recognizes the impacts that significant growth will continue to have on the region's environment. The Board of Supervisors also recognizes that it can and should be a regional leader in maintaining a healthy and sustainable community.

Leadership is a fundamental part of the Green Government Program because the identified actions will be implemented by County departments to demonstrate that environmental stewardship and cost savings can be achieved. This "Lead by Example" approach directs County departments to implement identified actions to help improve the region's air quality; improve water quality and quantity; increase material reuse and recycling; reduce energy use; make better informed decisions about efficient, economical, and environmentally sensitive land use and development patterns; and build long-lasting partnerships with the broader community.

While sustainability is often a misunderstood cliché, it's most commonly identified when environmental, economic, and social benefits overlap to achieve a positive outcome. Although achieving sustainability is difficult, Maricopa County believes the Green Government Program is an important step in a long-term approach to advance regional sustainability.

Maricopa County understands that we have a responsibility to our residents both current and future to be a leader in sustainability.

-Chairman Don Stapley



Acknowledgments

The Green Government Program was a multi-departmental effort steered by exceptional leadership from the Board of Supervisors and County Manager David Smith.

Maricopa County departments include:

Adult Probation

Air Quality

Animal Care and Control

Environmental Services

Equipment Services

Facilities Management

Flood Control District

Human Resources

Library District

Medical Examiner's Office

Parks and Recreation

Planning and Development

Public Health

Public Works Professional Support Services

Solid Waste

Stadium District

Superior Court

Transportation Department



Impact-Icons



The "impact-icons" indicate which tract of sustainability certain measures will improve. Because sustainability is a very expansive issue many measures may blend into more than one impact-icon. This overlap will be indicated in the document by the corresponding impact-icon with the specific measure.

"Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs."

-The Brundtland Commission



energy

With more than 13,000 employees and 177 buildings, Maricopa County is leveraging its assets and activities to make great strides in energy reduction. According to the Environmental Information Administration the buildings in the U.S. consume 72% of the electricity generated. Energy efficiency is becoming even more necessary as Maricopa County continues to add residents to its population base using more finite fossil fuel energy. The Maricopa County Green Government Program has identified detailed measures that are being implemented to help reduce energy usage within County buildings.

Did You Know?

That Maricopa County will reduce our annual energy consumption by 5% by 2012 from the 2008 baseline while adding 700,000 square feet of space.

















Maricopa County Desert Outdoor Center

Action Statement






Reduce energy consumption by 7.5% from 2009 baseline and increase clean, renewable energy production by 2 MW by 2015.






















ENERGY Measures

Tag	Department	Measure Detail	Due	Status	Impact Icons
AQ5	<u>Air Quality Department</u>	Work together with Building Management, MC Facility Engineers and Environmental Services to conduct internal building energy audits.	July 2014	Not Started	 
ACC2	<u>Animal Care and Control</u>	Phase out individual desktop printers and replace with networked printers/copiers.	July 2011	Launched	 
FMD1	<u>Facilities Management</u>	Have some employees achieve <u>US Green Building Council LEED Accreditation</u>	July 2011	Launched	   
FMD3	<u>Facilities Management</u>	Ensure that all new county buildings utilize a renewable energy source, and/or green power when feasible.	July 2010	On-Going	 
FMD4	<u>Facilities Management</u>	Have an established membership and be an active participant in the following organizations: <ul style="list-style-type: none"> • <u>US Green Building Council</u> • <u>Association of Energy Engineers</u> • Distributed Energy Association of Arizona • <u>Illuminating Engineering Society</u> • Municipal Energy Alliance of Greater Phoenix • <u>Sustainable Cities Network</u> 	July 2010	On-Going	   

ENERGY Measures

Tag	Department	Measure Detail	Due	Status	Impact Icons
FMD5	<u>Facilities Management</u>	Implement the following projects and operations using a Board of Supervisors-approved Energy Program budget: <ul style="list-style-type: none"> • Commission each new building to ensure that Facilities Management operational needs are met, building systems perform efficiently, and building operators are properly trained • Perform energy audits and retro-commission existing buildings • Use the Facilities Automation System to provide comfort to building occupants with minimum usage of energy • Use high efficiency motor replacements • Install variable frequency drive systems for pumps, motors, and chillers • Use fuel-efficient landscape maintenance equipment and ban all two-cycle pieces as technology permits transition • Use high-efficiency evaporative cooling where applicable • Retrofit meters for connectivity through the internet for improved energy management 	July 2012	Launched	
FMD6	<u>Facilities Management</u>	Implement a program to install 25-watt 4 ft. fluorescent lamps to replace existing 32-watt lamps in all county owned-managed buildings	July 2011	Launched	
FMD7	<u>Facilities Management</u>	Complete a vegetated roof feasibility study.	July 2011	Not-Started	
FMD8	<u>Facilities Management</u>	Install sub-meters on 50% of all county owned/managed buildings.	July 2013	Launched	
FMD9	<u>Facilities Management</u>	Install dashboard energy reporting system to link and monitor energy consumption/production for all applicable county owned/managed buildings.	July 2011	Launched	

















ENERGY Measures

Tag	Department	Measure Detail	Due	Status	Impact Icons
FCD1	<u>Flood Control District</u>	Research sitting possibilities for solar installations on Flood Control District parcels.	July 2011	Launched	 
HS2	<u>Human Services</u>	Integrate green building techniques into Community Development construction projects.	July 2012	Launched	   
LD2	<u>Library District</u>	Construct all future libraries to a minimum of <u>LEED-Certified</u> standards.	July 2010	On-Going	   
LD4	<u>Library District</u>	Reduce energy consumption by 5% based on 2005 baseline levels in all Library District owned/managed buildings.	July 2014	Launched	
PR4	<u>Parks and Recreation</u>	Construct 100% of all new Nature Centers to a minimum of <u>LEED-Certified</u> standards.	July 2010	On-Going	   
PD1	<u>Planning and Development</u>	Implement an optional residential Green Building program.	July 2013	Launched	   



"When one tugs at a single thing in nature, he finds it attached to the rest of the world."

-John Muir

ENERGY Measures

Tag	Department	Measure Detail	Due	Status	Impact Icons
PD6	<u>Planning and Development</u>	Prepare criteria for Board of Supervisors consideration and adoption that addresses building materials, building surfaces, building design, solar technology, shading, etc.	July 2013	Launched	 
SD3	<u>Stadium District</u>	Work in partnership with the Arizona Diamondbacks to implement community awareness programs and campaigns focusing on sustainability, energy conservation, recycling, and other "green" initiatives at Chase Field.	July 2011	Launched	  
SD5	<u>Stadium District</u>	Adopt the Maricopa County Environmentally Preferred Purchasing Policy (A1514) to use when procuring office supplies, building materials, and construction materials.	July 2011	On-Going	 
SC1	<u>Superior Court</u>	Develop a comprehensive internal curriculum and employee training on "Going Green" and sustainable living.	July 2011	Launched	   
SC3	<u>Superior Court</u>	Collaborate with multiple court departments, using the Judicial Branch newsletter, as well as other interdepartmental modes of communication to promote the Green Government Program, with regular and ongoing news articles and announcements of pertinent Going Green information.	July 2011	On-Going	   
SC5	<u>Superior Court</u>	Court Technology Services (CTS) will implement mandatory shutdown of computers at the end of the business day.	July 2011	On-Going	

ENERGY Measures

Tag	Department	Measure Detail	Due	Status	Impact Icons
MDOT 8	<u>Transportation</u>	Continue signal modernization and synchronization project along selected roadway corridors.	July 2010	On-Going	 

"The future belongs to those who understand that doing more with less is compassionate, prosperous and enduring and thus more intelligent, even competitive."
- Paul Hawken



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